Ethan Gates

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EDUCATION

Bachelor's degree in Computer Science, Western Governors University
Completed: Feb 2025

CERTIFICATIONS

- ITIL 4 Foundations November 2023
- Linux Essentials January 2025

TECHNICAL SKILLS

- Programming languages: Python, Java, C#, JavaScript, SQL
- Tools: Visual Studio Code, PyCharm, Git/GitHub, MySQL, Microsoft Excel, Word, and Power BI
- Hardware: Experience working with Arduino microcontrollers and Raspberry Pi boards
- Frameworks and Libraries: React, Spring Boot, NumPy, Matplotlib, Pandas, Tensorflow

INDEPENDENT PROJECTS – Hosted on my personal website and GitHub

- News Bias Analyzer: Developed a machine learning-powered web application using Fastapi and Next.js to classify news articles based on political bias and authenticity. Implemented OpenAI's embedding API for text vectorization and leveraged deep neural networks for high-accuracy classification. Achieved 74.3% accuracy in political bias classification and 99.99% accuracy in fake news detection. Demo
- *Stock Portfolio Analysis Tool*: Built a Python app that dynamically pulls historical stock data from Yahoo Finance, analyzes portfolio performance using Pandas, and visualizes growth trends with Matplotlib. Features include input validation, customizable back testing periods, and metrics like time-weighted return.
- Book Recommendation Engine: Created a book recommendation system leveraging OpenAI embeddings on summaries and reviews from a dataset of 45,000 books, with FAISS-powered similarity search. Deployed the project with a Flask backend on Google Cloud, and a React frontend hosted on GitHub Pages.
- Finance Dashboard: Created a Power BI tool using PowerPoint for mockups, guided by example stakeholder KPIs, integrating Excel data to offer clear insights into net worth, expenses, and savings through interactive, real-time visualizations.

PROFESSIONAL EXPERIENCE

Caregiver, Accra Home Care, Minnesota
09/2022-Present

Engineered scalable solutions for tracking medications, supplies, and patient information in Google Sheets, enabling tracking and monitoring to optimize treatment planning and care delivery, as well as assisted in day-to-day tasks of tracking, organizing, and restocking medical supplies

Team Trainer, Chick-Fil-A, Minnesota
05/2021-Present

Performed and trained new employees across all roles, curated customer experiences, and performed performance evaluations and training assessments

EXTRA-CURRICULARS

- UMTYMP: Completed Algebra I & II through University of Minnesota Talented Youth Mathematics Program. This program provides advanced math coursework for talented high school students.

- National Number Knockout: 2017 National Number Knockout Champion. This math competition tests mental math skills and creative problem-solving abilities.
- National STEM fest participant: Represented N2K at national STEM fest in 2018.
- Math League: Participated in Math League 2017-2021.
- Scoring Tech: Scoring tech for National Number Knockout Competition 2019.